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ABSTRACT OF THE DISCLOSURE

PIPELINE SCSI NEXUS ASSOCIATIVITY CIRCUIT

5 An innovative circuit is disclosed that enhances performance on a SCSI bus by pipelining
nexus in order to associate all nexus attributes on a per nexus basis. For example, a pipeline of
nexus is created so as to associate all of the nexus attributes from different connections involved.
A plurality of load stages is provided whereby each load stage can latch all nexus attributes
received at that stage. The latched nexus attributes can be loaded and stored at that stage or shifted
10 to the next stage. As a result of the loading and shifting operations, a pipeline of nexus is created
that associates all of the nexus attributes received from the different connections on a per nexus
basis. Therefore, all types of data traffic can be processed concurrently on a SCSI bus, which
enhances data throughput and bus performance.